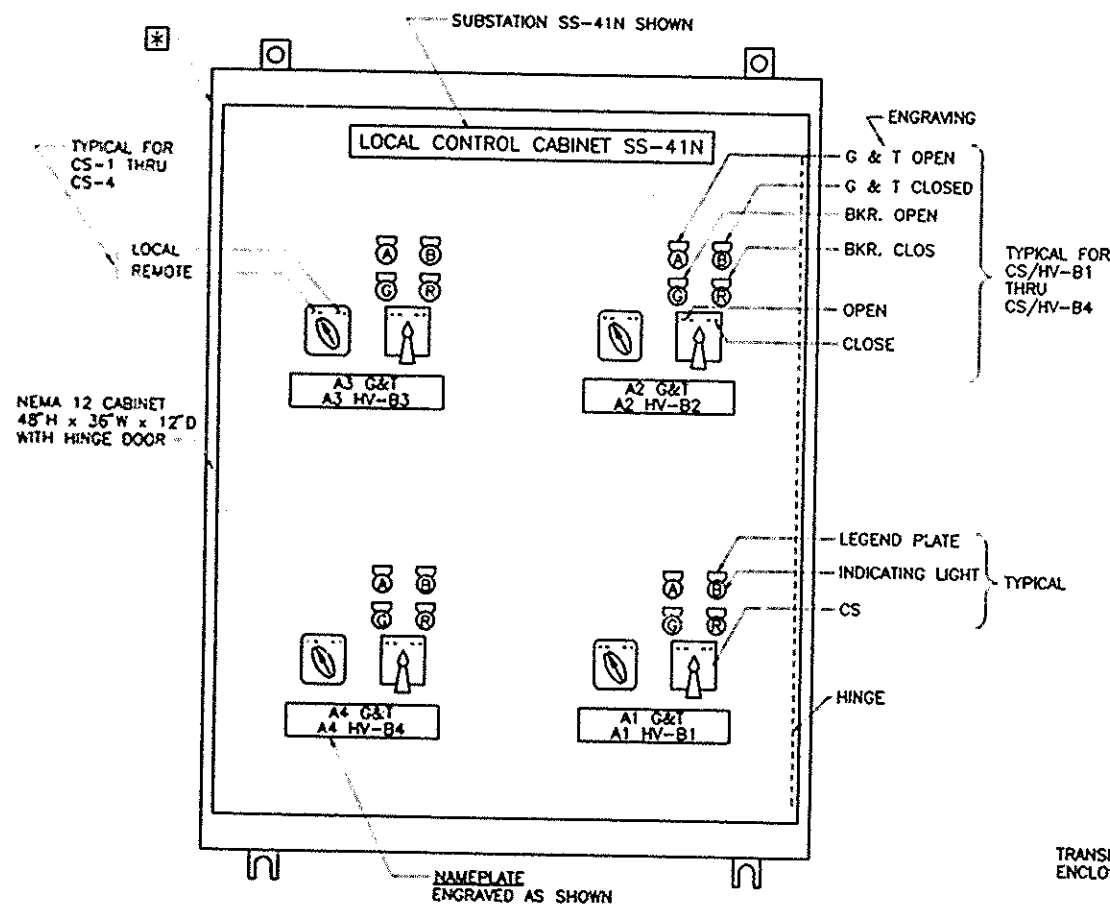


**SWITCHGEAR WIRING DETAIL**  
1/2 LINE-UP SHOWN (TYPICAL)

- INCOMING CONTROL WIRING
- INTERNAL WIRING BY OTHERS
- CU - INCOMING CONTROL TERMINAL BLOCKS
- I - INTERCONNECTION TERMINAL BLOCKS
- S - SCADA TERMINAL BLOCKS
- CL - CUBICLE TERMINAL BLOCKS
- ◆ - HARNESS WIRING BETWEEN VERTICAL SHIPPING SECTIONS CONNECTED AT ONE END BY OTHERS AND TAGGED AT THE OPPOSITE END FOR CONNECTION BY THE CONTRACTOR.



**LOCAL CONTROL CABINET DETAIL "A"**  
FRONT VIEW

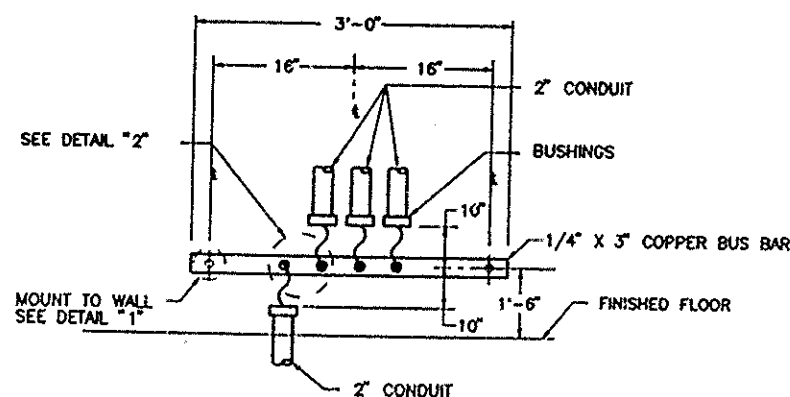
**LEGEND**

FOR CONTROL CABINET DETAIL

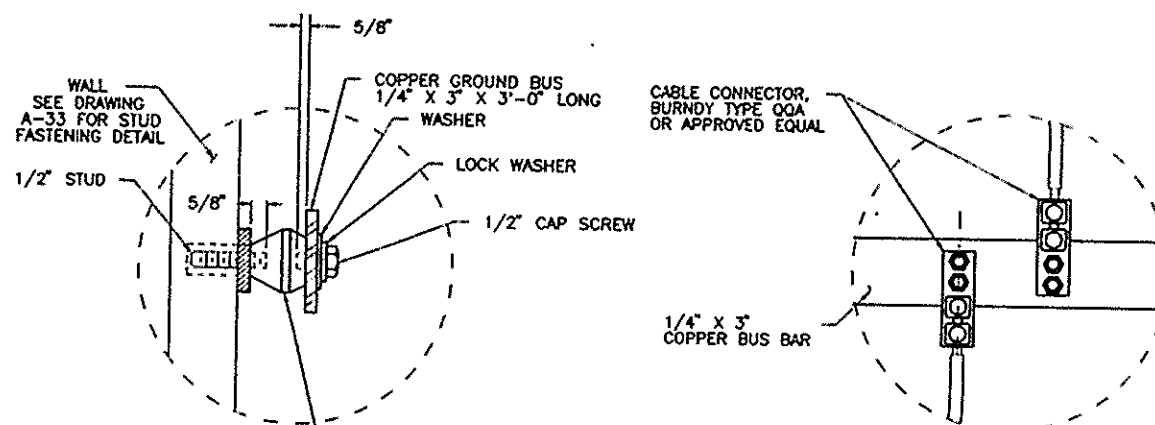
- ⊙ - INDICATING LIGHT
  - B - BLUE
  - A - AMBER
  - R - RED
  - G - GREEN
- CS - CONTROL SWITCH
  - CONTROL SWITCH SHALL BE AS FOLLOWS:
  - CS-1 THRU CS-4
    - 2 POSITION SWITCH
    - MAINTAIN CONTACTS
    - HANDLE REMAINS IN POSITION
    - STANDARD ESCUTCHEON
  - CS/HV-B1 THRU CS/HV-B4
    - 3 POSITION SWITCH
    - MOMENTARY CONTACTS
    - HANDLE SPRING RETURN TO CENTER
    - TARGET ESCUTCHEON

**NOTE:**

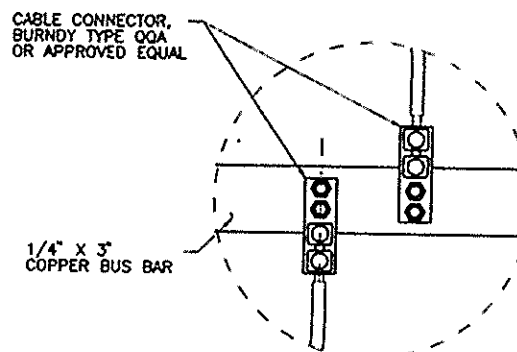
THE LOCAL CONTROL CABINET WILL COME COMPLETELY ASSEMBLED WITH ALL INTERNAL WIRING.



**GROUND BUS BAR ELEVATION**  
TYPICAL GROUND BUS  
N.T.S.



**DETAIL "1"**  
N.T.S.



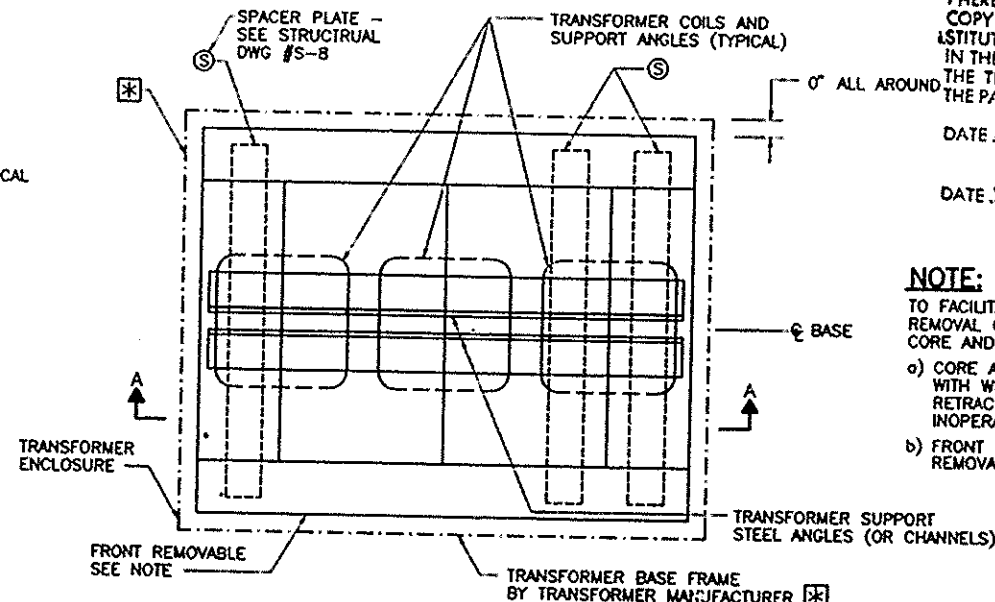
**DETAIL "2"**  
N.T.S.

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-802.071 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

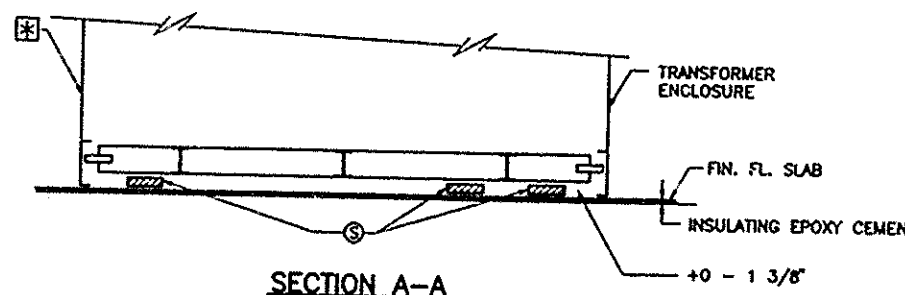
DATE 6/21/95 Sullivan A. A. A. SPEC. WRITER  
DATE 8/15/95 Peter K. J. ENGINEER OF DESIGN

**NOTE:**

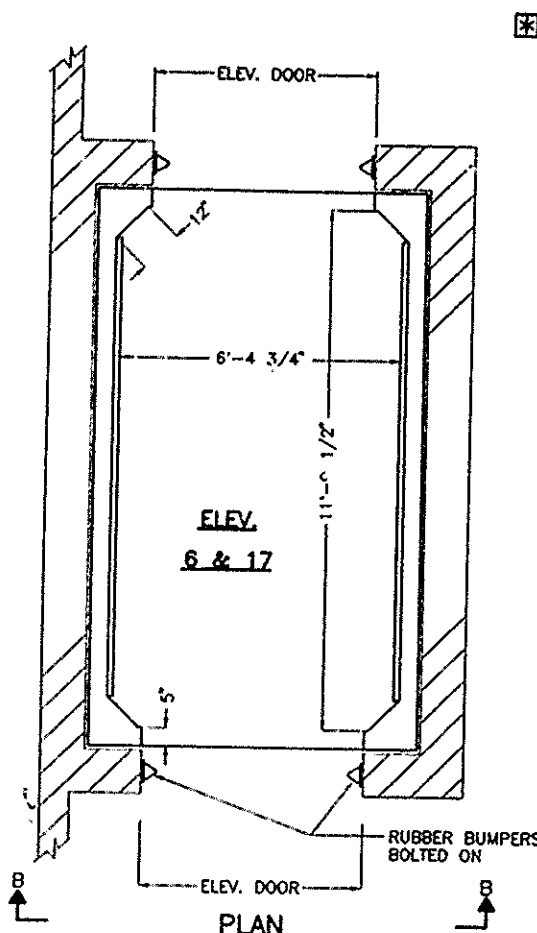
- TO FACILITATE THE INSTALLATION OR REMOVAL OF THE TRANSFORMER CORE AND COIL:
- a) CORE AND COIL SHALL BE FITTED WITH WHEELS CAPABLE OF BEING RETRACTED OR RENDERED INOPERATIVE WHEN IN PLACE
- b) FRONT STEEL MEMBERS SHALL BE REMOVABLE



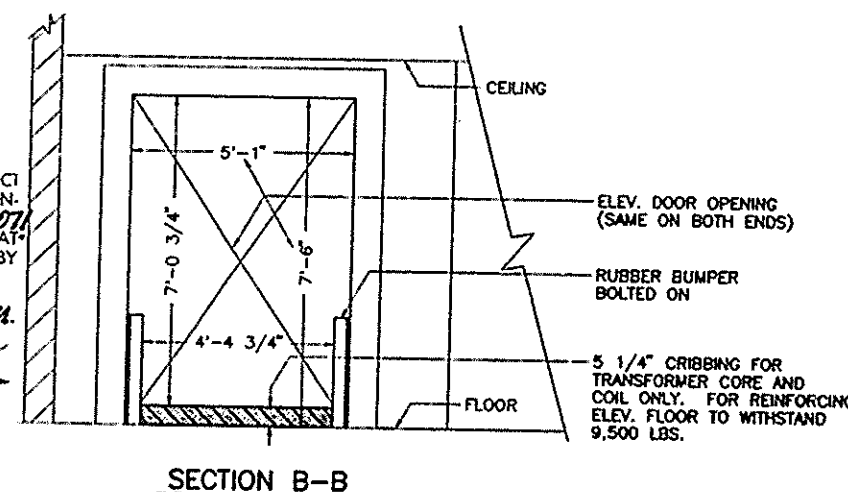
**TYPICAL TRANSFORMER BASE DETAIL**  
(TRANSFORMER TR-1, TR-2, TR-3, AND TR-4)



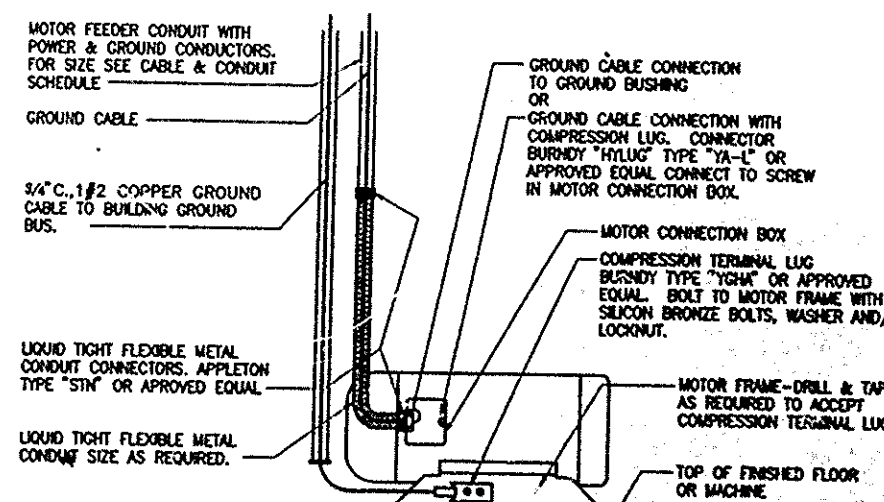
**SECTION A-A**



**W.T.C. ELEVATOR CLEARANCE DETAIL**  
SEE DWG. #A-27 FOR EQUIPMENT ROUTING PLANS



**SECTION B-B**



**DETAIL "B"**  
**TYPICAL MOTOR GROUNDING DETAIL**  
FOR 100HP AND UP. N.T.S.

**THE PORT AUTHORITY OF NY & NJ**

*Fitch Sweeney*  
ENGINEERING PROGRAM MANAGER  
WORLD TRADE CENTER  
CHIEF ELECTRICAL ENGINEER

Engineering Department  
Design Division  
**The World Trade Center**  
**Electrical/HVAC**  
**Upgrade Program**

Title  
**TOWER ONE AND TWO LOW VOLTAGE SUBSTATIONS CONSTRUCTION AND INSTALLATION**

**ELECTRICAL**  
**TYPICAL DETAILS**

No.	Date	Revision	Approved
This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.			
LEAHY/FISCHER	LEAHY	A.S.	
Designed by	Drawn by	Checked by	
Date 5-1-85	Scale NONE		
Contract Number	Drawing Number		
WTC 802.071	E-107		